SYSTEM PLANNING & ANALYSIS REPORT

S-3

T. H. 55

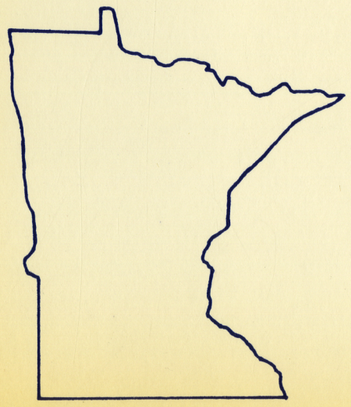
T. H. 52 AT PINE BEND TO
PROP. T. H. 61 NEAR HASTINGS

S. P. 1910-19

FEBRUARY, 1970

PREPARED BY

OFFICE OF SYSTEM PLANNING



MINNESOTA DEPARTMENT OF HIGHWAYS

ADMIN 1000

131

STATE OF MINNESOTA

Office Memorandum

DEPARTMENT HIGHWAY

DATE: February 25, 1970

TO : Paul G. Velz
Road Design Engineer

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: TH 55, TH 52 at Pine Bend
to Prop. TH 61 near Hastings
S.P. 1910-19
System Planning & Analysis Report S-3

The Statewide Planning Section transmits this report in response to K. McRae's October 29, 1969 request for the 1985 ADT, DHV and HCADT for the project location shown on the map on page 2.

The estimated 1985 ADT volumes are shown on the maps on pages 3 and 4 for First Stage and Alternate "A" respectively.

For each segment numbered on the maps on pages 3 and 4, the following data are tabulated on pages 5 and 6, and 7 respectively:

(a) Total ADT
(b) Vehicle Type Distribution
(c) Total HCADT

Segment 3, with a 1985 ADT of 8100, has the highest ADT on the project section of T.H. 55. This segment has a 1968 ADT of 3200 vehicles.

The basic data, method and assumptions used to prepare this report are presented on page 8.

Morris Gildemeister

Morris Gildemeister, Chief
Statewide Planning Section

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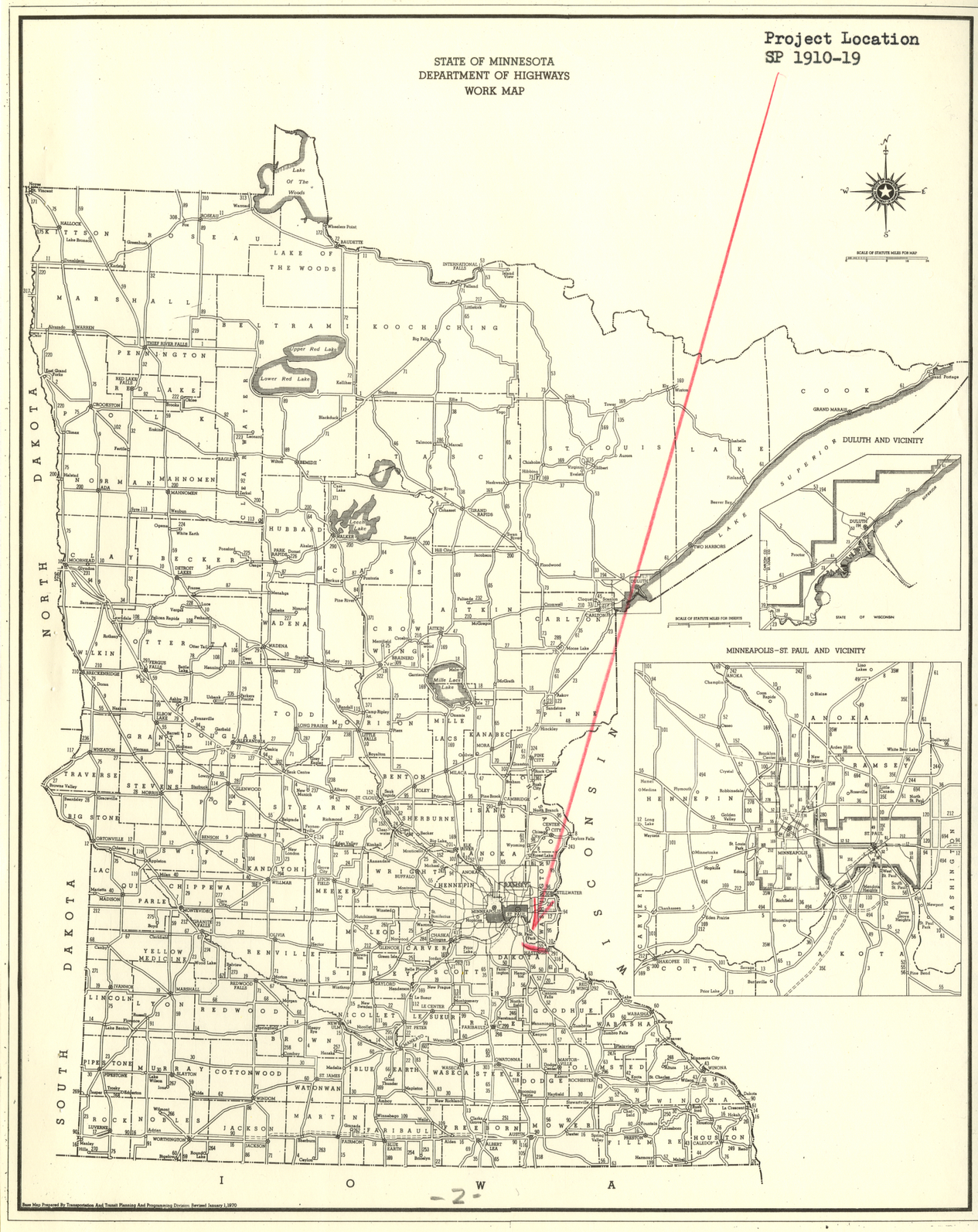


BEG. S.P 1910-19 (T.H.55)

T.H.52, 55 & 56

14300 ①

14300 ①

PINE BEND TRAIL

T.H.55

③ 8100

8100 ③

6500 ②

6500 ②

T.H.52 & 56

PINE BEND RO

FAHEY ROAD

TWP. RD.

④ 6100

6100 ④

⑤ 2000

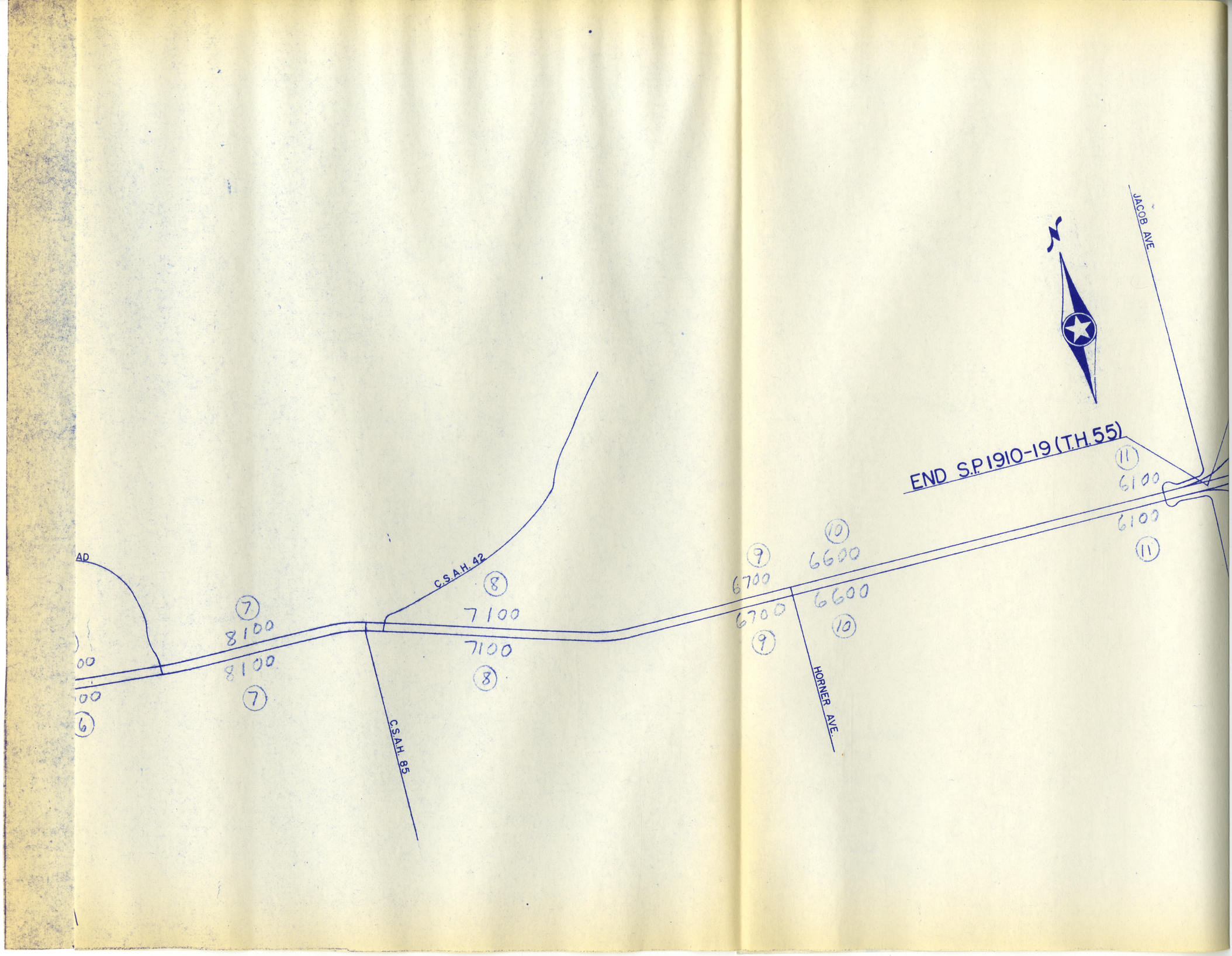
C.S.A.H. 38

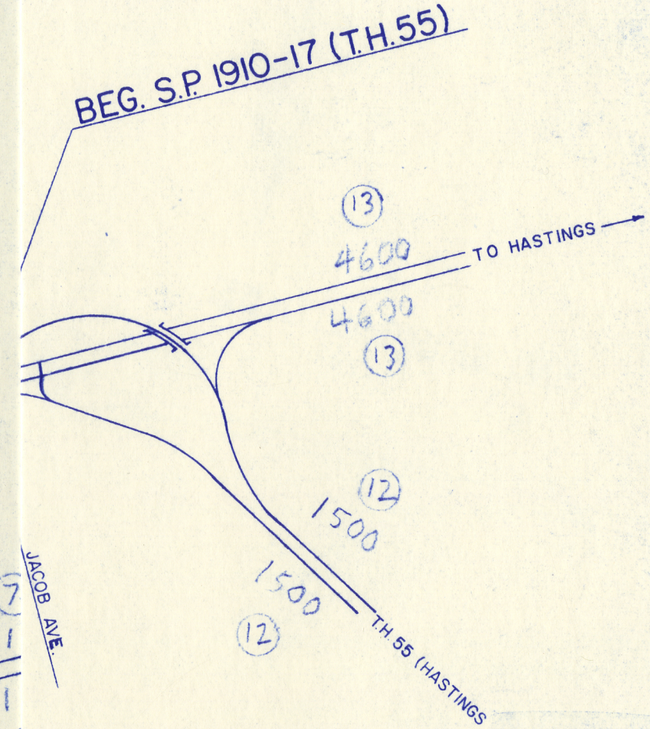
2000 ⑤

⑥ 8000

8000 ⑥

FISCHER TRAIL


JACOB AVE.
END S.P.1910-19 (T.H.55)
11
6100
6100
10
6600
9
6700
6700
6600
10
9
6100
11
C.S.A.H. 42
8
7100
7100
8
7
8100
8100
7
6
HORNER AVE.
C.S.A.H. 85



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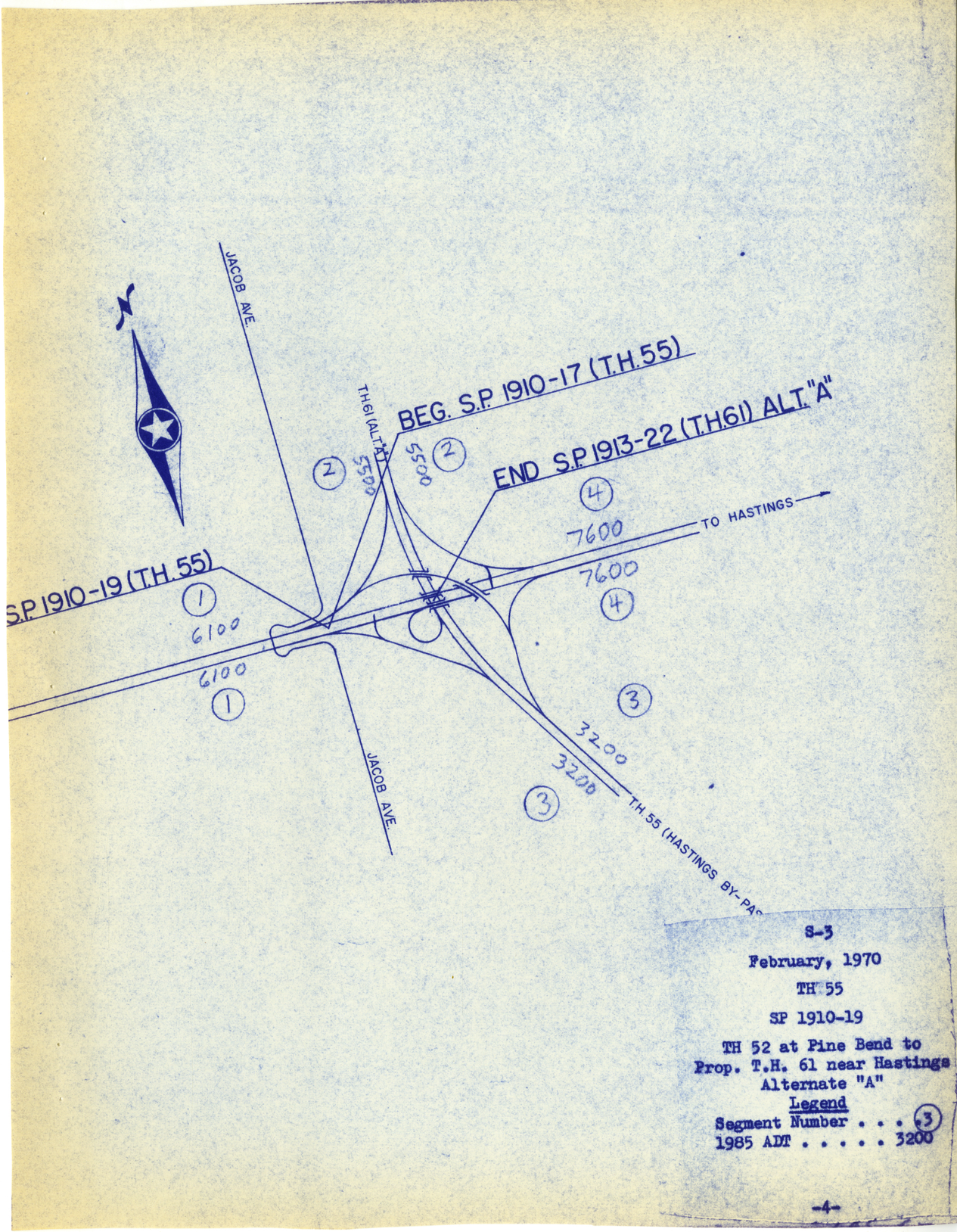
February, 1970

TH 55

SP 1910-19

TH 52 at Pine Bend to
Prop. T.H. 61 near Hastings
First Stage
Legend

Segment Number . . . (12)
1985 ADT 1500



S-3

February, 1970

TH 55

SP 1910-19

TH 52 at Pine Bend to
Prop. T.H. 61 near Hastings
Alternate "A"

Legend

Segment Number . . . (3)

1985 ADT 3200

Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 2

FOR

T.H. 55 S.P. 1910-19 LENGTH --- MILES

COUNTY Dakota LOCATION TH 52 at Pine Bend to Prop.

T.H. 61 near Hastings

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP of First Stage on Page 3

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	13319	5940	7662	5756	1906	7566	7662	6710	6330	6234	5756
1	474	312	169	127	42	167	169	148	140	138	128
2	145	46	103	78	25	102	103	90	85	84	78
3	58	46	12	10	2	12	12	11	10	10	10
4	69	46	24	21	3	24	24	22	21	21	20
5	121	52	72	64	8	72	72	68	66	66	64
6	114	58	58	44	14	57	58	51	48	47	44
TOTAL ADT	14300	6500	8100	6100	2000	8000	8100	7100	6700	6600	6100
TOTAL H. COMM. ADT	981	560	438	344	94	434	438	390	370	366	344
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 2

FOR

T.H. 55 S.P. 1910-19 LENGTH ---- MILES

COUNTY Dakota LOCATION T.H. 52 at Pine Bend to Prop.

T.H. 61 near Hastings

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 13 AS

DEFINED ON ATTACHED INDEX MAP of First Stage on Page 3.

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13									
0	1388	4368									
1	50	78									
2	9	69									
3	6	4									
4	14	6									
5	31	33									
6	2	42									
TOTAL ADT	1500	4600									
TOTAL H. COMM. ADT	112	232									
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 1

FOR

T.H. 55 S.P. 1910-19 LENGTH ---- MILES

COUNTY Dakota LOCATION T.H. 52 at Pine Bend to Prop. T.H. 61 near Hastings

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 4 AS DEFINED ON ATTACHED INDEX MAP of Alternate "A" on Page 4.

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4							
0	5756	5122	2974	7162							
1	128	157	91	172							
2	78	39	17	92							
3	10	15	11	12							
4	20	49	33	32							
5	64	100	70	82							
6	44	18	4	48							
TOTAL ADT	6100	5500	3200	7600							
TOTAL H. COMM. ADT	344	378	226	438							
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, and Assumptions

The 1985 ADT and DHV are presented in TAS 670-14 transmitted December 29, 1969. No turning movements are included in this report as the area land use is not committed.

Total heavy commercial ADT agree with the System "14" Heavy Truck Study. Vehicle type distributions are based on vehicle classification counts taken on roads assumed to provide similar levels of service as those of the subject project.

The 1995 traffic volumes may be otained by expanding 1985 volumes by 30 percent.